

**ABSTRACT OF THE DISCLOSURE**

A communication system includes a bus, first and second devices coupled to the bus, and a handshaking unit. The bus includes at least one data line and control lines. The data line is coupled between the first and second devices. The handshaking unit is coupled to the control lines of the bus and is adapted to determine if the first and second devices are capable of completing a data transfer and enable the first and second devices to facilitate the data transfer. A method for interfacing first and second devices coupled to a bus is provided. The bus has at least one data line coupled to the first and second devices and control lines. The method includes determining if the first and second devices are capable of completing a data transfer based on the control lines; providing handshaking signals on the control lines to enable the first and second devices; and transferring the data over the data line in response to the handshaking signals.